

PTO/SB/21 (08-03)

Approved for use through 08/30/2003. OMB 0651-0031
 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

TRANSMITTAL FORM <i>(to be used for all correspondence after initial filing)</i>	Application Number	10/708,195	
	Filing Date	02/15/2004	
	First Named Inventor	Yi-Cheng Yuan	
	Art Unit		
	Examiner Name		
Total Number of Pages in This Submission	3	Attorney Docket Number	OTMP0064USA

ENCLOSURES (Check all that apply)		
<input checked="" type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input checked="" type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation <input type="checkbox"/> Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance communication to Technology Center (TC) <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input type="checkbox"/> Other Enclosure(s) (please identify below):
Remarks Response to the office action has been sent to the examiner by fax on 12/04/2003		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Winston Hsu, Reg. No.: 41,526
Signature	
Date	3/15/2004

CERTIFICATE OF TRANSMISSION/MAILING		
I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below.		
Typed or printed name		
Signature		Date

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PTO/SB/17 (10-03)

Approved for use through 07/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 0.00)

Complete if Known

Application Number	10/708,195
Filing Date	02/15/2004
First Named Inventor	Yi-Cheng Yuan
Examiner Name	
Art Unit	
Attorney Docket No.	OTMP0064USA

METHOD OF PAYMENT (check all that apply)

Check Credit card Money Order Other None

Deposit Account:

Deposit Account Number 50-0801
Deposit Account Name North America International Patent Office

The Director is authorized to: (check all that apply)

- Charge fee(s) indicated below Credit any overpayments
 Charge any additional fee(s) or any underpayment of fee(s)
 Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1001 770	2001 385	Utility filing fee	
1002 340	2002 170	Design filing fee	
1003 530	2003 265	Plant filing fee	
1004 770	2004 385	Reissue filing fee	
1005 160	2005 80	Provisional filing fee	
SUBTOTAL (1)		(\$ 0.00)	

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Extra Claims	Fee from below	Fee Paid
Independent Claims	-20** =	X	=
Multiple Dependent	- 3** =	X	=

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description
1202 18	2202 9	Claims in excess of 20
1201 86	2201 43	Independent claims in excess of 3
1203 290	2203 145	Multiple dependent claim, if not paid
1204 86	2204 43	** Reissue independent claims over original patent
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent
SUBTOTAL (2)		(\$ 0.00)

*or number previously paid, if greater; For Reissues, see above

3. ADDITIONAL FEES

Large Entity Small Entity

Fee Code (\$)	Fee Code (\$)	Fee Description	Fee Paid
1051 130	2051 65	Surcharge - late filing fee or oath	
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet	
1053 130	1053 130	Non-English specification	
1812 2,520	1812 2,520	For filing a request for ex parte reexamination	
1804 920*	1804 920*	Requesting publication of SIR prior to Examiner action	
1805 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action	
1251 110	2251 55	Extension for reply within first month	
1252 420	2252 210	Extension for reply within second month	
1253 950	2253 475	Extension for reply within third month	
1254 1,480	2254 740	Extension for reply within fourth month	
1255 2,010	2255 1,005	Extension for reply within fifth month	
1401 330	2401 165	Notice of Appeal	
1402 330	2402 165	Filing a brief in support of an appeal	
1403 290	2403 145	Request for oral hearing	
1451 1,510	1451 1,510	Petition to institute a public use proceeding	
1452 110	2452 55	Petition to revive - unavoidable	
1453 1,330	2453 665	Petition to revive - unintentional	
1501 1,330	2501 665	Utility issue fee (or reissue)	
1502 480	2502 240	Design issue fee	
1503 640	2503 320	Plant issue fee	
1460 130	1460 130	Petitions to the Commissioner	
1807 50	1807 50	Processing fee under 37 CFR 1.17(q)	
1806 180	1806 180	Submission of Information Disclosure Stmt	
8021 40	8021 40	Recording each patent assignment per property (times number of properties)	
1809 770	2809 385	Filing a submission after final rejection (37 CFR 1.129(a))	
1810 770	2810 385	For each additional invention to be examined (37 CFR 1.129(b))	
1801 770	2801 385	Request for Continued Examination (RCE)	
1802 900	1802 900	Request for expedited examination of a design application	

Other fee (specify)

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 0.00)

SUBMITTED BY

(Complete if applicable)

Name (Print/Type)	Winston Hsu	Registration No. (Attorney/Agent)	41,526	Telephone	886289237350
Signature			Date	3/15/2004	

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



PTO/SB/02B (11-00)

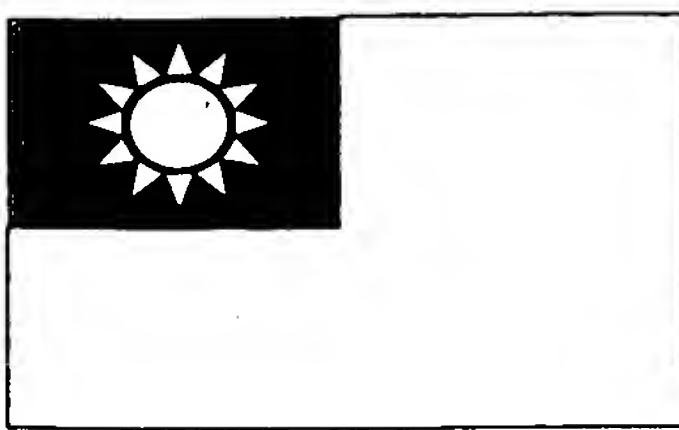
Approved for use through 10/31/2002. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

U.S. Patent and Trademark Office, U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

DECLARATION — Supplemental Priority Data Sheet

Additional foreign applications:

Burden Hour Statement: This form is estimated to take 21 minutes to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



中華民國經濟部智慧財產局

INTELLECTUAL PROPERTY OFFICE
MINISTRY OF ECONOMIC AFFAIRS
REPUBLIC OF CHINA

茲證明所附文件，係本局存檔中原申請案的副本，正確無訛，
其申請資料如下：

This is to certify that annexed is a true copy from the records of this office of the application as originally filed which is identified hereunder:

申 請 日：西元 2003 年 02 月 19 日
Application Date

申 請 案 號：092202858
Application No.

申 請 人：中強光電股份有限公司
Applicant(s)

局 長
Director General

蔡 繼 生

發文日期：西元 2003 年 9 月 23 日
Issue Date

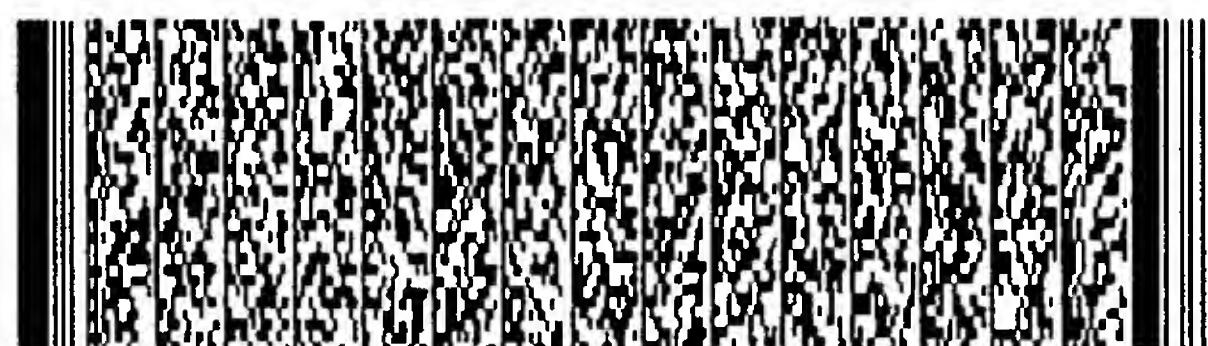
發文字號：09220952960
Serial No.

申請日期：	IPC分類
申請案號：	

(以上各欄由本局填註)

新型專利說明書

一 、 新型名稱	中 文	電源供應器之殼體結構
	英 文	Casing structure for power supply
二 、 創作人 (共2人)	姓 名 (中文)	1. 袁一誠 2. 曾湧泉
	姓 名 (英文)	1. Yuan Yi-Cheng 2. Tseng Yung-Chuan
	國 籍 (中英文)	1. 中華民國 TW 2. 中華民國 TW
	住居所 (中 文)	1. 新竹科學工業園區新竹市力行路11號 2. 新竹科學工業園區新竹市力行路11號
	住居所 (英 文)	1. No 11, Li Hsing Rd, Science-Based Industrial Park, Hsinchu, R.O.C. 2. No 11, Li Hsing Rd, Science-Based Industrial Park, Hsinchu, R.O.C.
三 、 申請人 (共1人)	名稱或 姓 名 (中文)	1. 中強光電股份有限公司
	名稱或 姓 名 (英文)	1. Coretronic Corporation
	國 籍 (中英文)	1. 中華民國
	住居所 (營業所) (中 文)	1. 新竹科學工業園區新竹市力行路11號 (本地址與前向貴局申請者相同)
	住居所 (營業所) (英 文)	1. No 11, Li Hsing Rd, Science-Based Industrial Park, Hsinchu, Taiwan, R.O.C.
	代表人 (中文)	1. 張威儀
代表人 (英文)	1. Wade Chang	



四、中文創作摘要 (創作名稱：電源供應器之殼體結構)

一種電源供應器之殼體結構，係由一上殼體及一下殼體組合而成，該上殼體其側邊形成有一對嵌接片及複個接合邊，該下殼體其側邊設有接合邊及嵌接槽，藉由接合邊之貼靠配合，與嵌接槽與嵌接邊之嵌合，使上殼體與下殼體可重疊接合，而具有較佳之封閉性及增強電磁干擾遮蔽效果；另於下殼體設置有一圓弧缺口且開口內縮之出線口，以方便理線而省去整束步驟，同時採用嵌接固定方式，因此，可簡化殼體組裝程序。

五、英文創作摘要 (創作名稱：Casing structure for power supply)

A casing structure for power supply has an upper case coupled to a lower case. The side of upper case is formed a pair of inserted pieces and connected edges. The side of lower case is formed an inserted slot and connected edges. The connected edges of upper case lean near to the connected edges of lower case, and the inserted pieces insert into the inserted slot to form the casing structure. Therefore the connected region of upper and lower case is overlap to enhance EMI shielding. Besides, the lower case has a line

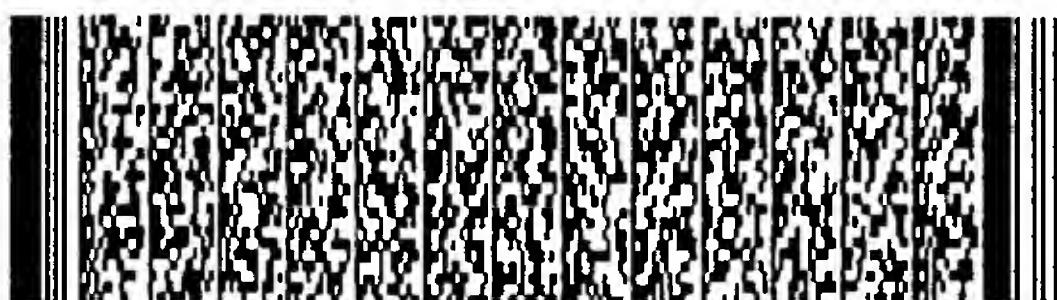


四、中文創作摘要 (創作名稱：電源供應器之殼體結構)



陸、英文創作摘要 (創作名稱：Casing structure for power supply)

outlet that is a circular arc notch with an opening contracting inwardly. The line outlet can easy to arrange the lines without arranging a skein of lines, and the upper case is fixed to lower case by inserted method instead of screwing. Thus, the casing structure will simplify the assembly process.



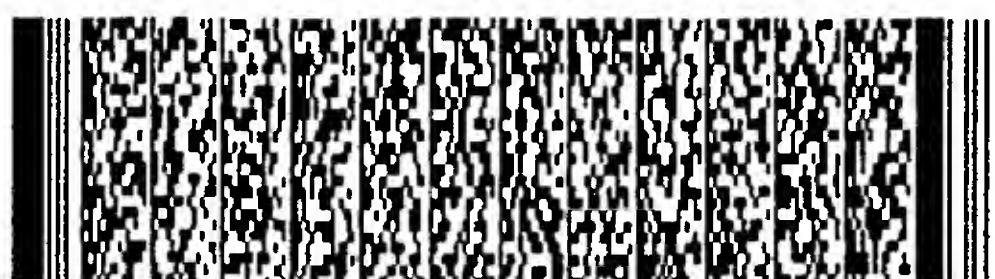
四、中文創作摘要 (創作名稱：電源供應器之殼體結構)

伍、(一)、本案代表圖為：第3圖

(二)、本案代表圖之元件代表符號簡單說明：

殼體結構	2 0	下殼體	2 1
接合邊	2 1 2 1	接合邊	2 1 3 1
接合邊	2 1 4 1	缺槽	2 1 5 1
出線口	2 1 6	上殼體	2 2
接合邊	2 2 1 1	嵌接片	2 2 2 1
出線口	2 3		

陸、英文創作摘要 (創作名稱：Casing structure for power supply)



一、本案已向

國家(地區)申請專利

申請日期

案號

主張專利法第一百零五條準用
第二十四條第一項優先權

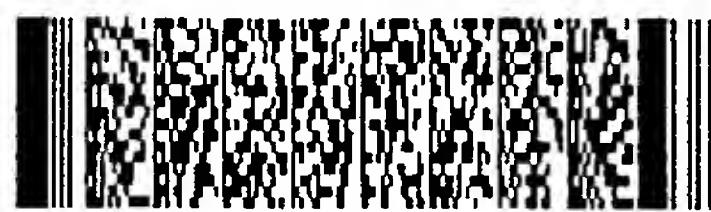
二、主張專利法第一百零五條準用第二十五條之一第一項優先權：

申請案號：

日期：

三、主張本案係符合專利法第九十八條第一項第一款但書或第二款但書規定之期間

日期：



五、創作說明 (1)

【新型所屬之技術領域】

本創作係有關殼體結構，尤其係指一種電源供應器之殼體結構。

【先前技術】

請參閱第1圖及第2圖所示，習知電源供應器之殼體結構10係由一下座11及一外殼12所構成；下座11由一底板111及垂設於底板111兩側之側板112A、112B形成一U形本體，並於底板111另兩側垂設板條113A、113B，使板條113A、113B與側板112A、112B間形成滑道114，側板112A、112B自由端面設有螺孔115；而外殼12由一頂板121及垂設於頂板121兩側之側板122A、122B形成一U型本體；而習知殼體結構10係將電路板與電子元件(未圖示)設置於下座11內，且於下座11上開設有一圓孔116可供內部電線穿出。

再參閱第2圖所示，其組裝程序係先將內部線路穿出圓孔116，再將外殼12側板122A、122B之自由端沿滑道114滑入下座11，後由外殼12上方將螺絲13鎖固於螺孔115而組成該殼體結構10。

但由於內部電線之出線口係採圓孔116設計，因此理線步驟需先整成一束後才易於由該圓孔116穿出，致使需增加整束步驟，否則需增大圓孔116孔徑以方



五、創作說明 (2)

便穿出電線，但此又會降低電磁干擾 (Electric Magnetic Interference, EMI) 遮蔽效果，且外殼 1 2 與下座 1 1 結合需藉由螺絲 1 3 鎖固，才可達到固定效果，此亦增加組裝工時。

【新型內容】

本創作之一目的，係提供一種電源供應器之殼體結構，藉由設置於下殼體之出線口以及嵌接固定方式，達到簡化組裝程序。

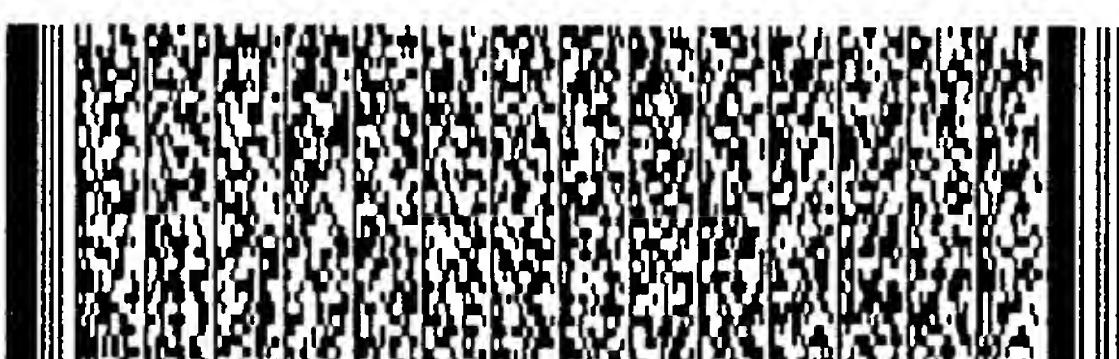
本創作之又一目的，係提供一種電源供應器之殼體結構，藉由圓弧缺口及開口內縮之出線口，可方便利用重疊接合方式，故可增強電磁干擾遮蔽效果。

為達上述目的，本創作之電源供應器之殼體結構，主要由一上殼體及一下殼體組合而成，該上殼體其側邊相對應體與下殼體重疊接合後形成一封閉之矩形體，下殼體另設有一圓弧缺口且開口內縮之出線口，以方便理線。

【實施方式】

有關本創作為達到上述目的，所採用之技術手段及其餘功效，茲舉一較佳實施例，並配合圖式加以說明如下：

請參閱第 3 圖所示，本創作電源供應器之殼體結構 2 0 係由一下殼體 2 1 及一上殼體 2 2 組成。



五、創作說明 (3)

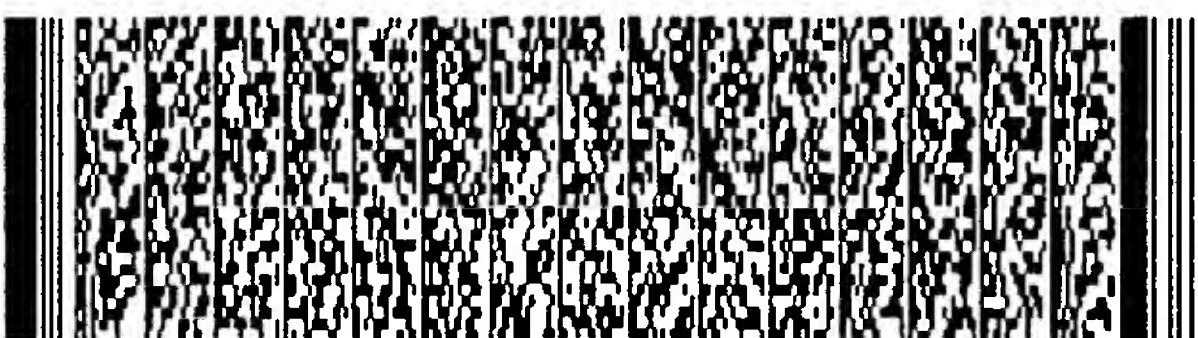


五、創作說明 (4)

係依缺槽 2 1 5 1 形狀而設以封閉下殼體 2 1 ，側板 2 2 兩側設有一對嵌接片 2 2 2 1 ，嵌接片 2 2 2 1 係可嵌入下殼體 2 1 之缺槽 2 1 5 1 內。

本創作之組裝程序，係先進行理線程序，即將內部線由出線口 216 內縮之一開口置入，後容於對接片 2221 側緣之彈夾一縮封之殼線入電鎖槽 2151 後推入，由於缺槽 2151 可對嵌接片 2221 固定結開用，因此開口利用，以致螺栓 2111 & 21512 受夾壓與下殼體 216 採用溢出，再因由開口 216 方便線上殼體 216 由開口 216 電線穿入，使固定口，且不需利用，故可簡化組裝程序。

而且電線可直接由圓弧缺口之線口216穿入，而僅需遮擋千位上殼體，依據電線量設計出線口孔徑，使不致影響電磁線之與上殼體接合邊緣內2，例如上殼體22上之出線口23。下殼體21周緣之接之上殼體22接合時，上殼體22之頂板221與接合邊緣內2，係容置於接合邊2121&2131重疊貼靠，而與接合邊2121&2131重疊貼靠。



五、創作說明 (5)

2 之側板 2 2 2 周緣之嵌接片 2 2 2 1 紮與彈性片 2 1
5 1 1 & 2 1 5 1 2 形成重疊，而頂板 2 2 2 另一端緣
則靠在第三側板 2 1 4 之接合邊 2 1 4 1 上以形成重疊
，因此上殼體 2 2 與下殼體 2 1 接合組裝後，其接合處
壁面均相重疊，故封閉性較佳亦可增強電磁干擾遮蔽效果
。

以上所述，僅用以方便說明本創作之較佳實施例，
本創作之範圍不限於該等較佳實施例，凡依本創作所做
的任何變更，於不脫離本創作之精神下，皆屬本創作申
請專利範圍。



圖式簡單說明

【圖式簡要說明】

- 第1圖，係習知電源供應器之殼體結構組合圖。
第2圖，係習知電源供應器之殼體結構分解圖。
第3圖，係本創作電源供應器之殼體結構組合圖。
第4圖，係本創作電源供應器之殼體結構分解圖。

【圖號簡要說明】

殼體結構	2 0
下殼體	2 1
底板	2 1 1
第一側板	2 1 2
接合邊	2 1 2 1
第二側板	2 1 3
接合邊	2 1 3 1
第三側板	2 1 4
接合邊	2 1 4 1
第四側板	2 1 5
缺槽	2 1 5 1
彈性片	2 1 5 1 1 、 2 1 5 1 2
出線口	2 1 6
上殼體	2 2
頂板	2 2 1
接合邊	2 2 1 1
側板	2 2 2
嵌接片	2 2 2 1



圖式簡單說明

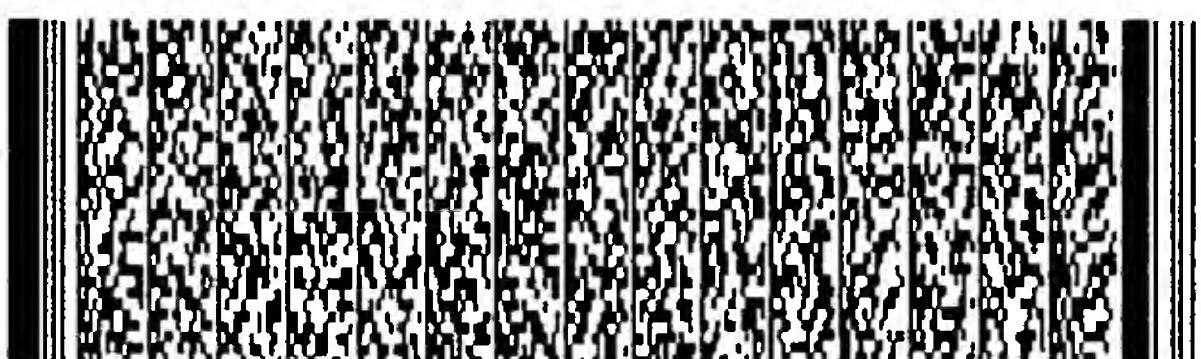
出線口

2 3



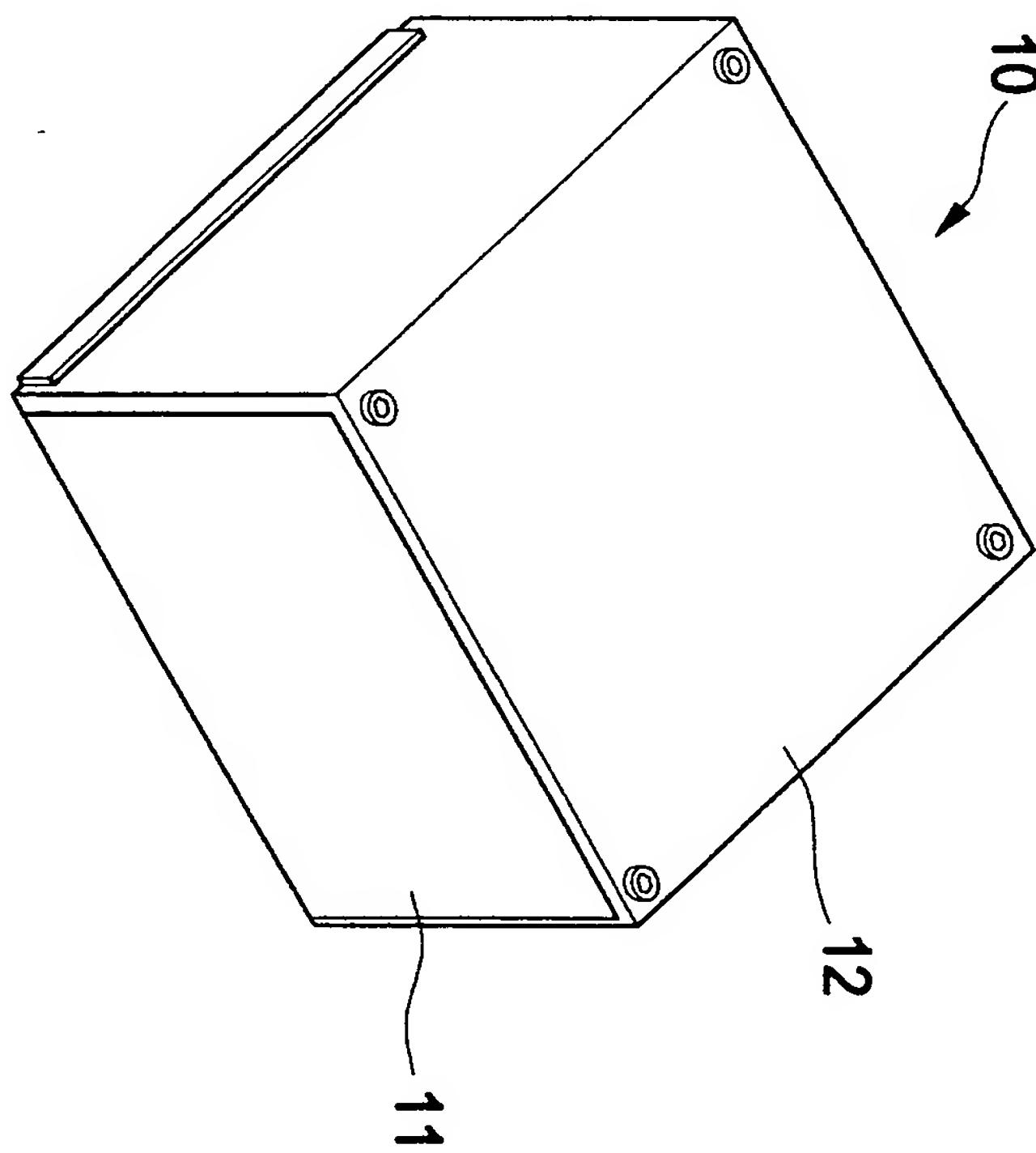
六、申請專利範圍

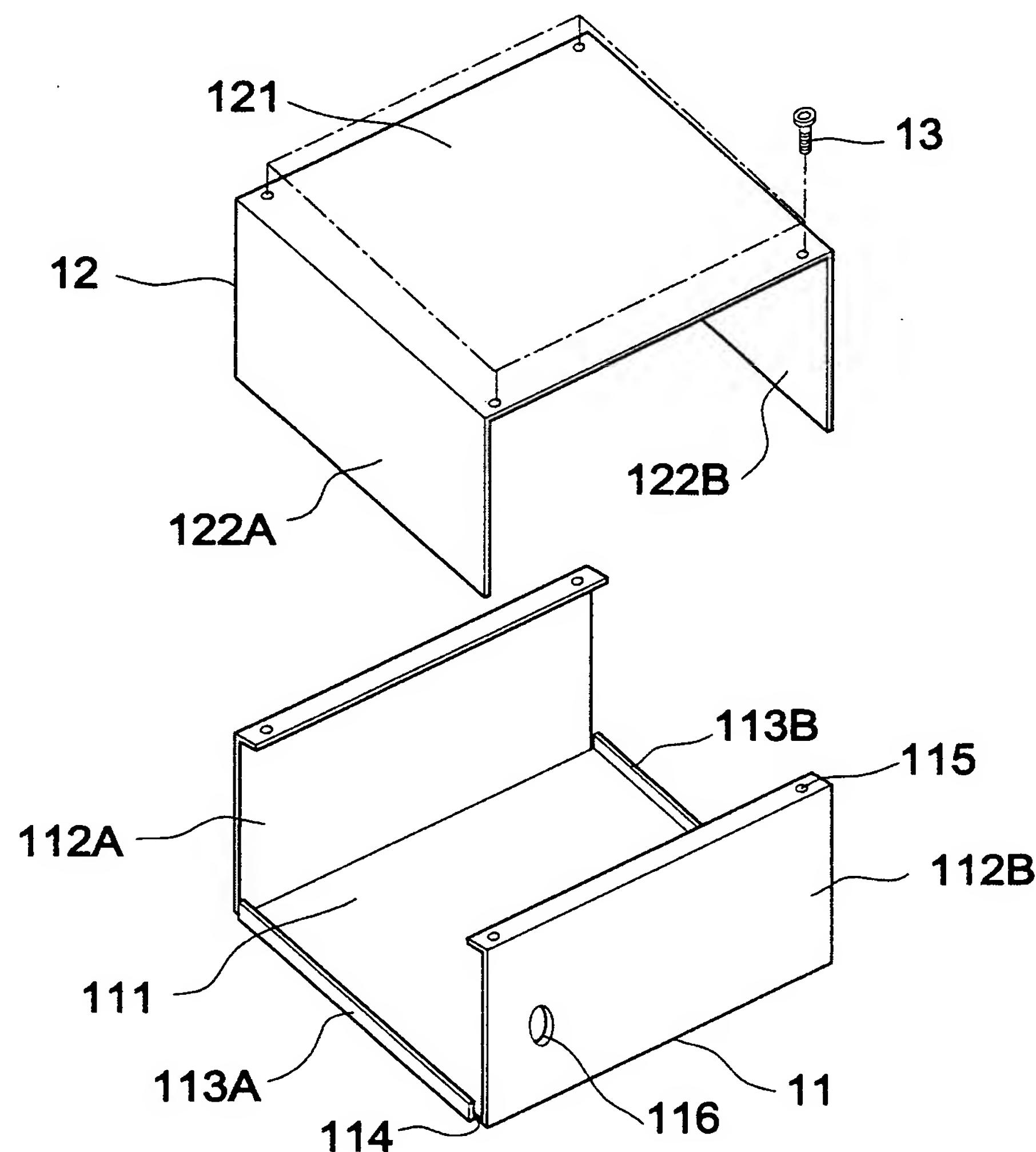
- 1、一種電源供應器之殼體結構，係主要由一上殼體及一下殼體組合而成，該上殼體其側邊形成有一對接合邊與嵌接片分設有接合邊及嵌接槽，藉以使上殼體與下殼體重疊接合。
- 2、如申請專利範圍第1項所述之電源供應器之殼體結構，其中該下殼體設有出線口。
- 3、如申請專利範圍第1項所述之電源供應器之殼體結構，其中該上殼體設有出線口。
- 4、如申請專利範圍第2項所述之電源供應器之殼體結構，其中該出線口可為圓弧缺口，且具有一內縮之開口。
- 5、如申請專利範圍第3項所述之電源供應器之殼體結構，其中該出線口可為圓弧缺口，且具有一內縮之開口。
- 6、如申請專利範圍第1項所述之電源供應器之殼體結構，其中該嵌接槽之周緣設有複個彈性片，且該嵌接片設於彈性片間。
- 7、如申請專利範圍第1項所述之電源供應器之殼體結構，其中該下殼體與上殼體組合後形成一封閉之矩形體。





第 1 圖

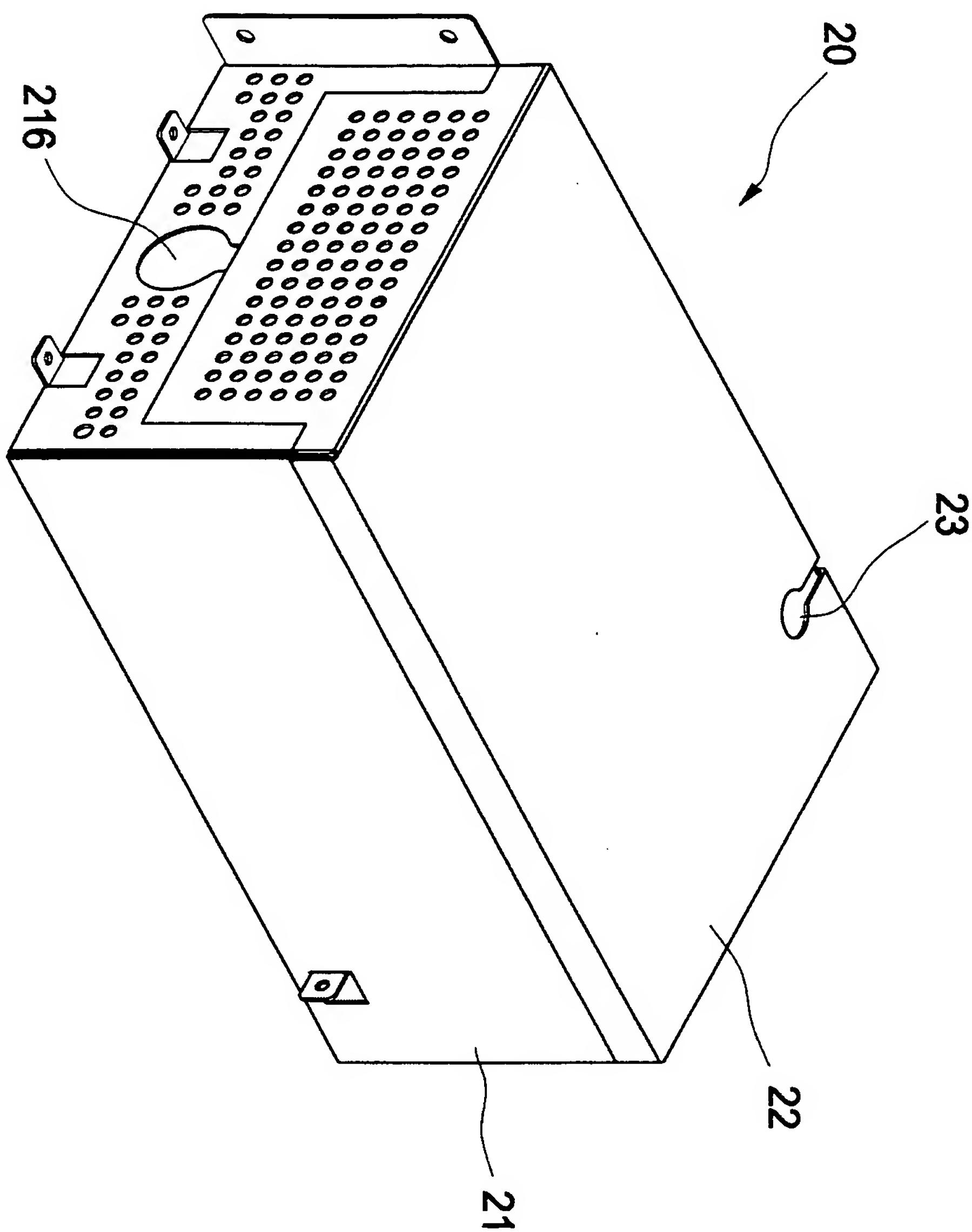




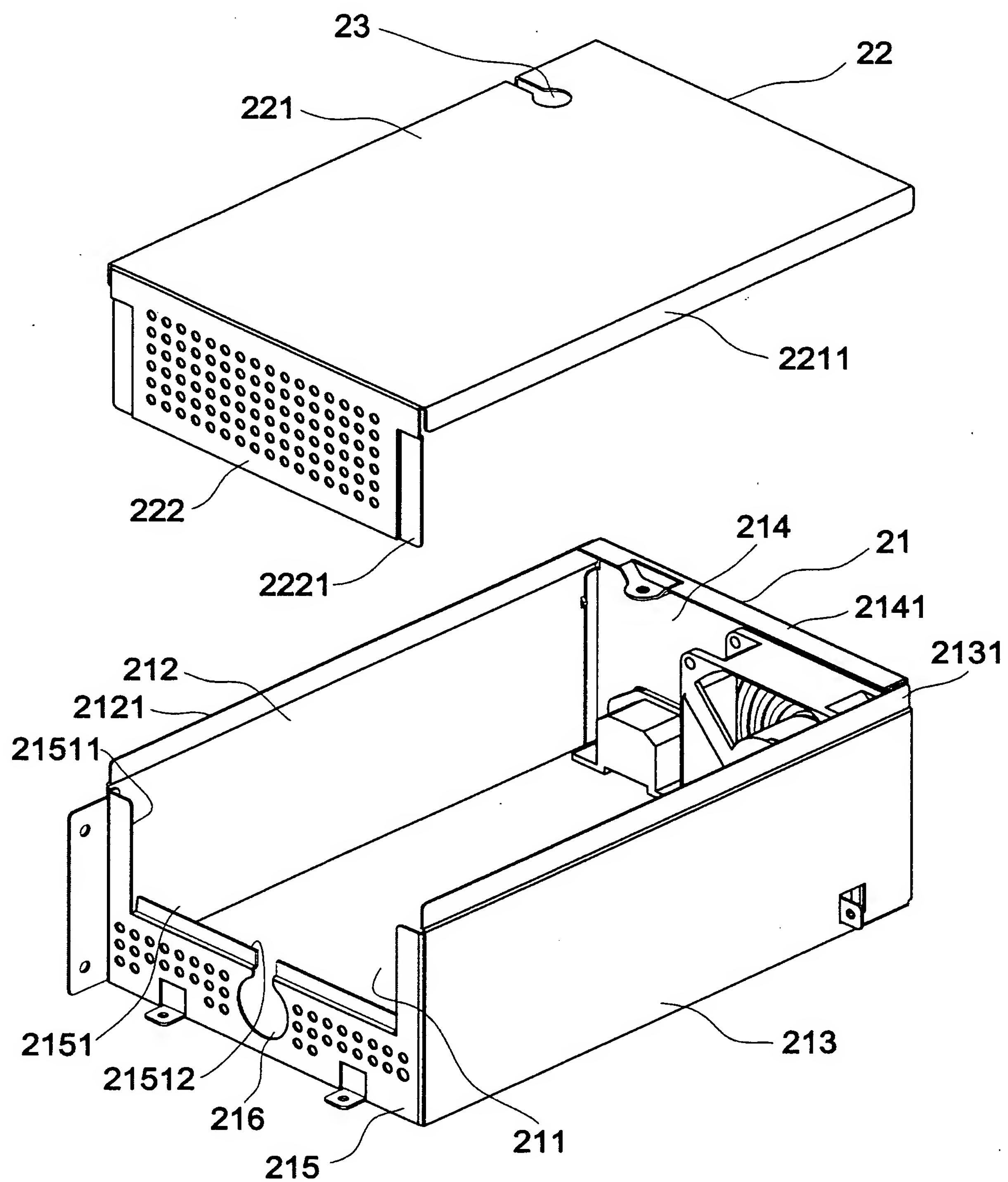
第 2 圖



第3圖



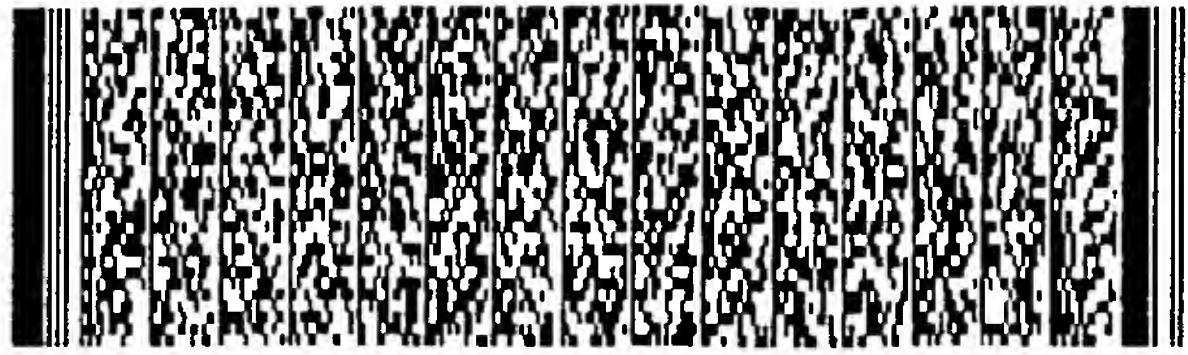
圖式



第 4 圖

申請案件名稱:電源供應器之殼體結構

第 1/13 頁



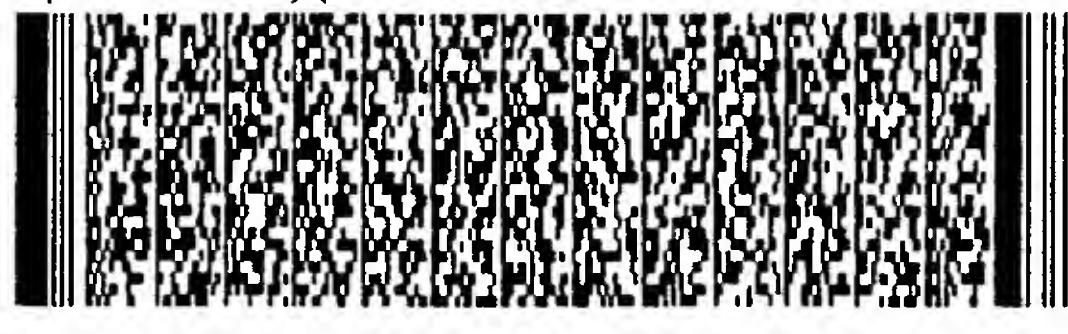
第 2/13 頁



第 2/13 頁



第 3/13 頁



第 4/13 頁



第 5/13 頁



第 6/13 頁



第 6/13 頁



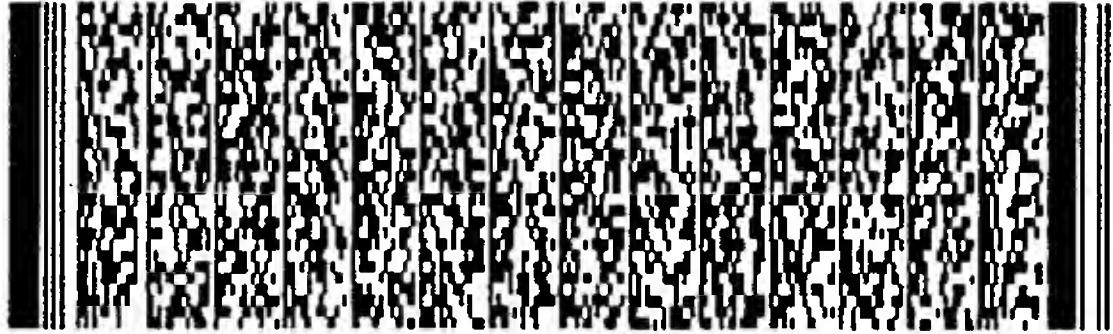
第 7/13 頁



第 7/13 頁



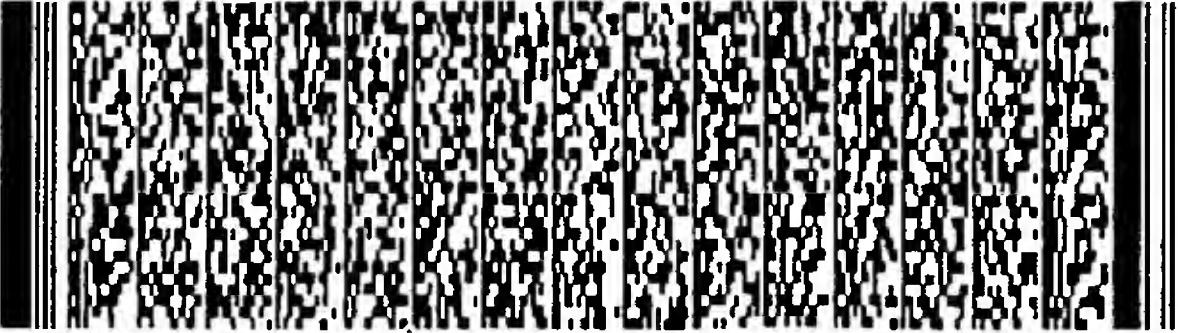
第 8/13 頁



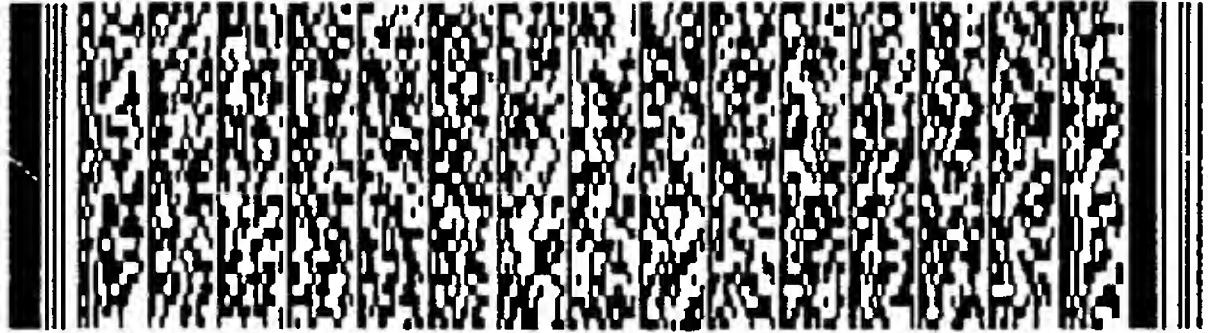
第 8/13 頁



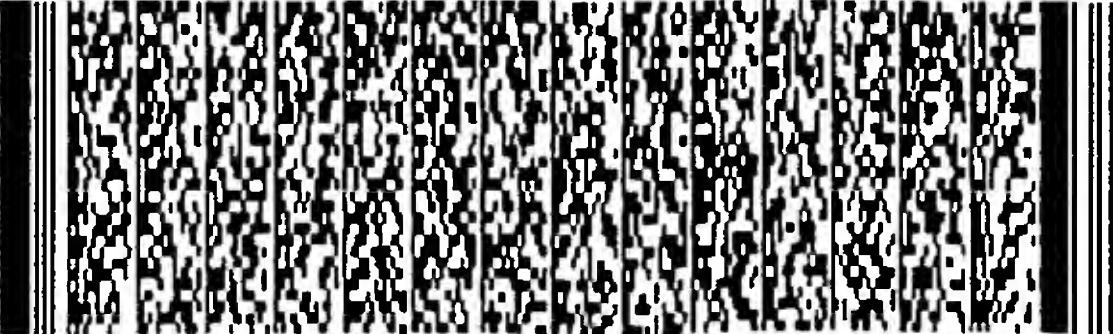
第 9/13 頁



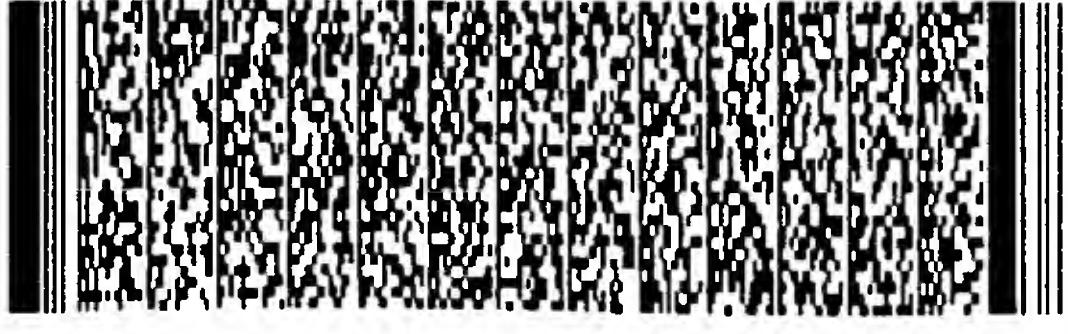
第 9/13 頁



第 10/13 頁

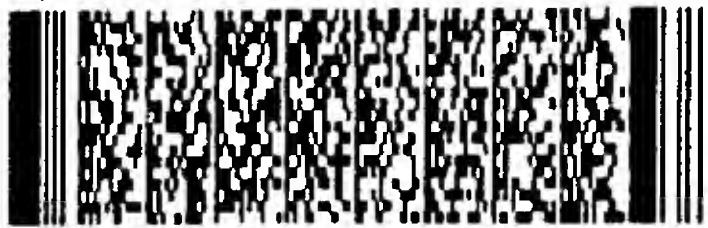


第 11/13 頁



申請案件名稱：電源供應器之殼體結構

第 12/13 頁



第 13/13 頁

